

STS-100 POST LAUNCH FILM REVIEW
KSC Photo/Video Analysis Team
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Due to the flexing of the TPS on the LH OMS Pod (LP04) on STS-100 we have gone back and reviewed films E-17 and E-18 on the previous 20 launches to determine if any movement was present in those launches. The 20 previous launches gave a wide variety of launch times and lighting conditions. The results are as follows:

Of the 40 launch films reviewed (2 cameras per launch), 7 of them gave no data:

- Both sides on STS-89 due to under exposure.
- LH side (E-18) on STS-90 due to moisture on lense.
- LH side (E-18) on STS-90 due to under exposure.
- Both sides on STS-99 due to sunshine glare on lenses.
- RH side (E-17) on STS-97 due to excessive camera shake.

Movement was noted on two previous launches:

- Slight movement noticed on both the LH (LP05) and RH (RH05) OMS pod on STS-94.
- Slight movement noticed on the LH (LP03) OMS pod on STS-98.

Movement was also seen on the RH OMS Pod (RP01) on STS-100.

The movements noticed on STS-94, STS-98, and the RH OMS Pod on STS-100 were of significantly less magnitude than that of the LH OMS Pod on STS-100.

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